

OHIO PUBLIC WORKS COMMISSION

77 South High Street, Room 1629

Columbus, Ohio 43266-0303

(614) 466-0880

CB 223

APPLICATION FOR FINANCIAL ASSISTANCE

NOTE: Applicant should consult the "Instructions for Completion of Project Application" for assistance in the proper completion of this form.

APPLICANT NAME City of Sharonville
STREET 10900 Reading Road
CITY/ZIP Sharonville, Ohio 45241
PROJECT NAME Kemper Road Bridge Replacement (East of Mosteller)
PROJECT TYPE Bridge
TOTAL COST \$ 282,700

DISTRICT NUMBER 2
COUNTY Hamilton

PROJECT LOCATION ZIP CODE 45241

This section to be completed by District Committee ONLY:

DISTRICT FUNDING RECOMMENDATION

AMOUNT OF REQUEST: \$ 195,600.00

FUNDING SOURCE (Check Only One):

- ☒ State Issue 2 District Allocation
☐ State Issue 2 Small Government Funds
☐ State Issue 2 Emergency Funds
☐ Local Transportation Improvement Program

This section to be completed by OPWC ONLY:

OPWC PROJECT NUMBER: _____

OPWC FUNDING AMOUNT: \$ _____

1.0 APPLICANT INFORMATION

- 1.1 CONTACT PERSON
TITLE Mr. Rex E. Baysore
STREET Safety - Service Director
10900 Reading Road
- CITY/ZIP Sharonville, Ohio 45241
PHONE (513) 563 - 1144
FAX (513) 563 - 0617
- 1.2 CHIEF EXECUTIVE OFFICER
TITLE Hon. John S. Dowlin
STREET Mayor
10900 Reading Road
- CITY/ZIP Sharonville, Ohio 45241
PHONE (513) 563 - 1144
FAX (513) 563 - 0617
- 1.3 CHIEF FINANCIAL OFFICER
TITLE Mr. James D. Greensfelder
STREET Auditor
10900 Reading Road
- CITY/ZIP Sharonville, Ohio 45241
PHONE (513) 563 - 1144
FAX (513) 563 - 0617
- 1.4 PROJECT MGR
TITLE Mr. Al Ledbetter
STREET Deputy Safety - Service Director
10900 Reading Road
- CITY/ZIP Sharonville, Ohio 45241
PHONE (513) 563 - 1144
FAX (513) 563 - 0617
- 1.5 DISTRICT LIAISON
TITLE William W. Brayshaw
STREET Chief Deputy County Engineer
138 E. Court Street
700 County Administration Bldg.
Cincinnati, Ohio 45202
- CITY/ZIP Cincinnati, Ohio 45202
PHONE (513) 632 - 8691
FAX (513) 723 - 9748

2.0 PROJECT SCHEDULE

	ESTIMATED START DATE	ESTIMATED COMPLETE DATE
2.1 ENGR. DESIGN	04 / 02 / 90	06 / 25 / 90*
2.2 BID PROCESS	06 / 26 / 90	07 / 24 / 90
2.3 CONSTRUCTION	08 / 01 / 90	10 / 31 / 90

*Assumes County review of preliminary and final plans at one (1) week each.

3.0 PROJECT INFORMATION

3.1 PROJECT NAME: Kemper Road Bridge Replacement - East of Mosteller

3.2 BRIEF PROJECT DESCRIPTION

A. SPECIFIC LOCATION:

On Kemper Road, over a tributary to the East Fork of the Mill Creek, Approximately 200' east of Mosteller Road.

See Location Map.

B. PROJECT COMPONENTS:

Replace existing concrete box/corrugated metal arch structure with 3-sided pre-cast concrete bridge. Wingwalls/headwalls at each end of new bridge with 100'± retaining wall on south end. Regrade 200' of outletting channel; line 50' of outlet channel with concrete. Utility relocations/adjustments as required. Remove existing structure, backfill and repave.

C. PHYSICAL DIMENSIONS/CHARACTERISTICS:

Existing Bridge: 6'-8" x 16'-6" concrete box culvert (original structure) with 5'x18" corrugated metal arch extension. Overall length 50'.

Proposed Bridge: 3-sided pre-cast concrete; 6' rise x 26' span x 65' long.

New bridge will be about 100' west of existing bridge to avoid conflict with truck apron at adjacent industry and to provide better channel alignment.

Roadway is wider at this location.

Proposed Channel: 14'+ wide bottom; 2:1 side slopes; 4'-6" deep; length=200' (1st 50' to be

D. DESIGN SERVICE CAPACITY: concrete lined).

Design Live Load: Existing Bridge; N-A

Proposed Bridge; Standard AASHTO HS 20-44 (tractor truck with semi-trailer)

Hydraulic Capacity:

Existing Culvert: 500 CFS±

Proposed Culvert: 1300 CFS± (50 year frequency storm);

Tributary Area: 1843 Acres (2.9 sq. miles)

3.3 REQUIRED SUPPORTING DOCUMENTATION

Attach Pages.

4.0 PROJECT FINANCIAL INFORMATION

4.1 PROJECT ESTIMATED COSTS (Round to Nearest Dollar):

a)	Project Engineering Costs:		
	1. Preliminary Engineering	\$ 14,700	(including Geotech. & Survey)
	2. Final Design	\$ 14,500	
	3. Construction Supervision	\$ 9,000	(Including Stakeout)
b)	Acquisition Expenses		
	1. Land	\$ N-A	
	2. Right-of-Way	\$ N-A	
c)	Construction Costs	\$ 203,800	
d)	Equipment Costs	\$ N-A	
e)	Other Direct Expenses	\$ N-A	
f)	Contingencies	\$ 40,700	
g)	TOTAL ESTIMATED COSTS	\$ 282,700	

4.2 TOTAL PORTION OF PROJECT REPAIR/REPLACEMENT \$ 282,700

4.3 TOTAL PORTION OF PROJECT NEW/EXPANSION \$ - 0 -

4.4 PROJECT FINANCIAL RESOURCES (Round to Nearest Dollar and Percent)

	Dollars	%
a)	Local In-Kind Contributions	\$
b)	Local Public Revenues	\$ 87,100 31%
c)	Local Private Revenues	\$
d)	Other Public Revenues	
	1. State of Ohio	\$
	2. Federal Programs	\$
e)	OPWC Funds	\$ 195,600 69%
f)	TOTAL FINANCIAL RESOURCES	\$ 282,700 100%

4.5 STATUS OF FUNDS

Attach Documentation.

4.6 PREPAID ITEMS

Attach Page.

5.0 APPLICANT CERTIFICATION

The Applicant Certifies That:

As the official representative of the Applicant, the undersigned certifies: that he/she is legally empowered to represent the applicant in both requesting and accepting financial assistance as provided under Chapter 164 of the Ohio Revised Code; that to the best of his/her knowledge and belief, all representations that are a part of this application are true and correct; that all official documents and commitments of the applicant that are a part of this application have been duly authorized by the governing body of the Applicant; and, should the requested financial assistance be provided, that in the execution of this project, the Applicant will comply with all assurances required by Ohio law, including those involving minority business utilization, equal employment opportunity, Buy Ohio, and prevailing wages.

Rex E. Baysore - Safety - Service Director

Certifying Representative (Type Name and Title)

 3/13/90
Signature/Date Signed

Applicant shall circle the appropriate response to the statements.
In my project application, I have included the following:

- | | | |
|------------|----|--|
| <u>YES</u> | NO | Two-year Maintenance of Local Effort Report as required in 164-1-12 of the Ohio Administrative Code. |
| <u>YES</u> | NO | A registered professional engineer's estimate of useful life as required in 164-1-13 of the Ohio Administrative Code. |
| <u>YES</u> | NO | A registered professional engineer's estimate of cost as required in 164-1-14 and 164-1-16 of the Ohio Administrative Code. |
| <u>YES</u> | NO | Two (2) copies of a 5-year Capital Improvements Report have been submitted to my District Integrating Committee as required in 164-1-31 of the Ohio Administrative Code. |
| <u>YES</u> | NO | A "status of funds" report per section 4.5 of this application. |
| YES | NO | <u>N/A</u> A copy of the cooperative agreement (for projects involving more than one subdivision). |
| YES | NO | <u>N/A</u> Copies of all warrants for those items identified as "pre-paid" in section 4.6 of this application. |

6.0 DISTRICT COMMITTEE CERTIFICATION

The District Integrating Committee for District Number 2 Certifies That:

As the official representative of the District Public Works Integrating Committee, the undersigned hereby certifies: that this application for financial assistance as provided under Chapter 164 of the Ohio Revised Code has been duly selected by the appropriate body of the District Public Works Integrating Committee; that the project's selection was based entirely on an objective, District-oriented set of project evaluation criteria and selection methodology that are fully reflective of and in conformance with Ohio Revised Code Sections 164.05, 164.06, and 164.14, and Chapter 164-1 of the Ohio Administrative Code; and that the amount of financial assistance hereby recommended has been prudently derived in consideration of all other financial resources available to the project. As evidence of the District's due consideration of required project evaluation criteria, the results of this project's ratings under such criteria are attached to this application.

Donald C. Schramm, Chairperson, District #2 Integrating Committee

Certifying Representative (Type Name and Title)

 3/16/90
Signature/Date Signed

CITY OF SHARONVILLE
2 YEAR MAINTENANCE OF LOCAL EFFORT

YEAR	PROJECT	LOCAL	FUNDING MDF	SOURCE C.D.	ISSUE II	AMOUNT
1988	Engineering - Infrastructure Projects	X				125,000
1988	Street Program	X				535,000
1988	Hauck Road upgrade	X				98,000
1988	Clinton Avenue storm sewer	X				25,000
1988	U.S. Rt. 42 Improvement	X	X			190,000
1988	Traffic signals and school lights	X				6,200
1988	Development of Left Turn on Chester	X				70,000
1988	Brick repairs - Downtown	X				4,500
1988	Sidewalk repairs	X				65,000
		TOTAL				\$1,118,700

YEAR	PROJECT	LOCAL	FUNDING MDF	SOURCE C.D.	ISSUE II	AMOUNT
1989	Engineering - Infrastructure Projects	X				300,000
1989	Street Program	X				445,693
1989	Canal Road	X				457,354
1989	Sidewalk Repairs	X				225,000
1989	Reed Hartman Highway	X	X			152,333
1989	Kemper Road Improvement	X				1,000,000
		TOTAL				\$2,580,380

PROJECT Kemper Road Bridge Replacement

East of Mosteller

PROJECT # 90049

DATE March 13, 1990



Item No.	Spec. No.	ITEM	Estimated Quantity	Unit of Measure	UNIT COST			Item Cost
					Material	Labor	Total	
201		Clearing & Grubbing		L.S.			5,000	5,000
202		Remove Existing Structure & Concrete Channel		L.S.			8,000	8,000
203		Excavation for Culvert	1520	C.Y.			15.00	22,800
203		Excavation for Channel Regrading	550	C.Y.			15.00	8,250
203		Compacted Clay Fill (Old Culvert & Channel)	585	C.Y.			20.00	11,700
301		Bituminous Aggregate Base	80	C.Y.			60.00	4,800
402		Asphalt Leveling Course	20	C.Y.			65.00	1,300
404		Asphalt Surface Course	20	C.Y.			65.00	1,300
503		Cofferdams, Cribbing & Sheeting		L.S.			2,000	2,000
511		Class C Concrete, Footings	131	C.Y.			225	29,475
511		Class C Concrete, Headwalls & Retaining Walls	40	C.Y.			270	10,800
518		Porous Backfill	113	C.Y.			23.00	2,599
601		Concrete Channel Lining	50	C.Y.			240	12,000
601		Rock Channel Protection	70	C.Y.			30.00	2,100

CDS ASSOCIATES, INC.

PROJECT Kemper Road Bridge Replacement

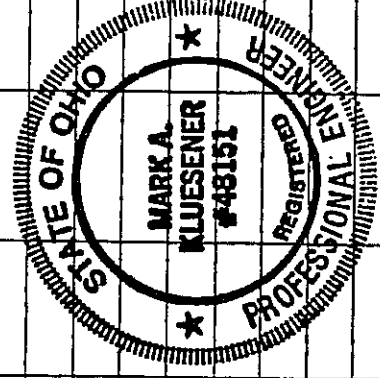
East of Mosteller

PROJECT # 90049

DATE March 13, 1990

2/2

Item No.	Spec. No.	ITEM	Estimated Quantity	Unit of Measure	UNIT COST			Item Cost
					Material	Labor	Total	
603		Pre-Cast Concrete 3-sided Bridge; 8' Rise (with 2' Bury) x 26' Span with 30° skew	65	L.F.			960	62,400
606		Guardrail - On Bridge	60	L.F.			25	1,500
606		Guardrail - on Approach	200	L.F.			18	3,600
614		Maintaining Traffic		L.S.				10,000
659		Seed & Mulch	2800	S.Y.			1.50	4,200
		CONTINGENCIES (20%±)						40,676
		TOTAL CONSTRUCTION COST						244,500
		OPINION OF CONSTRUCTION COST IS SUBJECT TO ADJUSTMENT UPON DETAIL PLAN COMPLETION AND UPON RECEIPT OF BIDS BY QUALIFIED CONTRACTORS.						
		USEFUL LIFE - UPON SATISFACTORY COMPLETION OF WORK, THE USEFUL LIFE OF THE KEMPER ROAD BRIDGE REPLACEMENT WILL BE 50 YEARS.						
		BY CDS ASSOCIATES, INC. - CITY ENGINEER						
		<i>Mark A. Kluesener</i>						
		Mark A. Kluesener, P.E.						



DISTRICT 2

PROPOSED 5 YEAR CAPITAL IMPROVEMENT PROGRAM
(ISSUE 2 FUNDS ONLY)

TYPE PROJECT

1. BRIDGE

F.O.-FUNCTIONALLY OBSOLETE
S.D.-STRUCTURALLY DEFICIENT

2. ROADWAY

3. STORM WATER

4. WASTE WATER

5. WATER SUPPLY

6. SOLID WASTE DISPOSAL

7. FLOOD CONTROL

TYPE PROJECT
(SUFFIX)

A - REHABILITATION

B - REPLACEMENT

C - BETTERMENT

FO () : 10-10-89

CITY OF SHARONVILLE

NAME OF JURISDICTION/AGENCY

IDENTIFICATION CODE

SHA

(See attachment 5)

PROJ. PRIORITY
NO. (FOR
STAFF
USE)

PROJECT NAME

TYPE
PROJPROJECT LOCATION, LIMITS
OR BRIDGE NO.CURRENT
CONDITION
FORDAILY
USERSTOTAL
PROJECT
COSTESTIMATED
CONST. COST

INFRASTRUCTURE FUNDS

IS CONST. FUNDED IN
OVERALL 5 YEAR
CAPITAL IMPROVEMENT
BE BID. EARLIER
WITH ISSUE 2 FUNDS
NEEDED AS
% OF

FUNDING YEAR 1990

1 Sharonville Retention
Dam Spi Llyway7B Creek Road Opposite
Sharondale

Class II N/A

(High See
Hazard Appl)

671,136

500,586

Yes

No

50%

FUNDING YEAR 1991

1 Main Street Bridge

1B HAM-WYSCR-0131 SHA

4A

16,570

167,000

145,000

No

Yes

50%

FUNDING YEAR 1992

1 Creek Road Bank
Stabilization3A North Side of Creek
Road at Thornview

Poor

N/A

94,000

75,000

No

Yes

50%

FUNDING YEAR 1993

1 Kemper Road Bridge

1B HAM-S0266-0212

4A

12,100

282,700

244,500

No

Yes

80%

FUNDING YEAR 1994

1 Reading Rd. Bridge @
Sharon Road

1B HAM_00042-1431

5P

13,663

1,000,000

No

Yes

50%

CITY OF SHARONVILLE
FIVE YEAR CAPITAL IMPROVEMENT PLAN
FOR INFRASTRUCTURE

1990

1.	Street Program	\$1,000,000.00
2.	Sidewalk Repairs	65,000.00
3.	Street Lights (Indian Springs)	80,000.00
4.	Kemper/Chester Rds. Widening and Improvements (Project began in 1989)	1,000,000.00
5.	Repair & Overlay of Reed Hartman Highway I-275 to Fields Ertel	300,000.00
6.	Replacement of Kemper Rd. bridge over Sharon Woods	720,000.00
7.	Sharonville Retention Dam Spillway	671,000.00
8.	Relocation of Traffic Signal on Chester and Sharon Rds. (2)	30,000.00
9.	Bridge Improvements Kemper east of Mosteller	230,000.00
10.	Sharon Rd. Improvements (Prince to Chester)	350,000.00
	TOTAL	\$44,460,000.00

1991

1.	Street Program	\$1,000,000.00
2.	Sidewalk Repairs	65,000.00
3.	Stabilization of Hazelwood Creek Bank (Creek and Thornview)	75,000.00
4.	Land acquisition for I-275 Improvements	500,000.00
5.	Engineering for widening and overlay of E. Kemper from Sharon Woods to I-275	75,000.00
6.	Main Street Bridge Replacement	161,000.00
7.	Engineering for Replacement of St. Rt. 42 Bridge (south of Sharon Ave.)	80,000.00
	TOTAL	\$1,956,000.00

1992

1.	Street Program	\$1,000,000.00
2.	Sidewalk Repairs	70,000.00
3.	Engineering for I-275 Ramp Improvements	80,000.00
4.	Widen & Overlay of Kemper Rd. (Sharon Woods east to Reed Hartman)	315,000.00
5.	Replacement of St. Rt. 42 Bridge	500,000.00
6.	Widen and overlay Reading Rd., north of Kemper Rd.	62,000.00
7.	Engineering for improvements of Kemper Rd. from Reed Hartman to Corp. line	80,000.00
	TOTAL	\$2,107,000.00

1993

1.	Street Program	\$1,200,000.00
2.	Sidewalk Repairs	70,000.00
3.	Replacement of Oak Ave. bridge culvert	190,000.00
4.	Improvements to E. Kemper (east of Reed Hartman to Corp. line)	500,000.00
5.	Engineering and improvements to Hauck Rd. Reading Rd. to Rt. 42.	1,500,000.00
6.	Engineering for widening of Mosteller Rd. Crescentville to I-275	90,000.00
7.	Engineering of 4 lane bridge over I-75 on Crescentville	90,000.00
8.	Storm Drain Repairs — City Wide	500,000.00
	TOTAL	\$4,140,000.00

1994

1.	Street Program	\$1,200,000.00
2.	Sidewalk Repairs	70,000.00
3.	Widening of Mosteller Rd. (Crescentville to I-275)	1,500,000.00
4.	Engineering and widening of Crescentville from Chesterdale to Centerdale	900,000.00
5.	Engineering for Crescentville from I-75 to Gano Rd.	90,000.00
6.	Storm Drain Repairs — City Wide	500,000.00
	TOTAL	\$4,260,000.00



City of Sharonville

MAYOR
John S. Dowlin

SAFETY/SERVICE
DIRECTOR
Rex E. Baysore

PRESIDENT OF
COUNCIL
Paul Kattelman

COUNCIL
Dewey E. Angel
Edward L. Barger
Robert W. Houston
Virgil G. Lovitt, II
John Steckler
Ivy E. Taylor
Mark E. Piepmeyer

AUDITOR
James D. Greensfelder

TREASURER
Janet L. Barger

LAW DIRECTOR
Thomas T. Keating

CLERK OF COUNCIL
Dorothy Darland

March 13, 1990

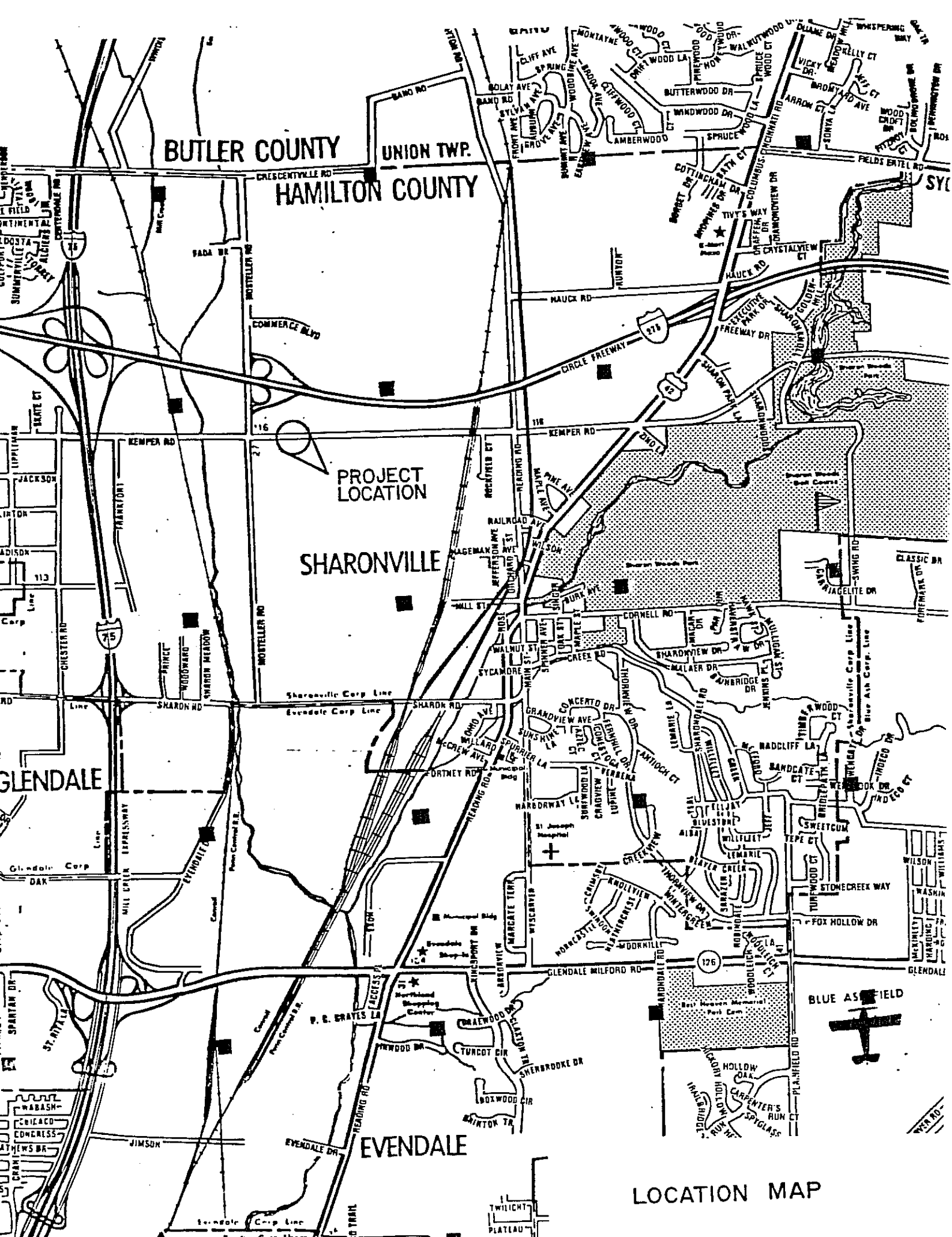
STATUS OF FUNDS REPORT

CERTIFICATION OF ISSUE II FUNDS

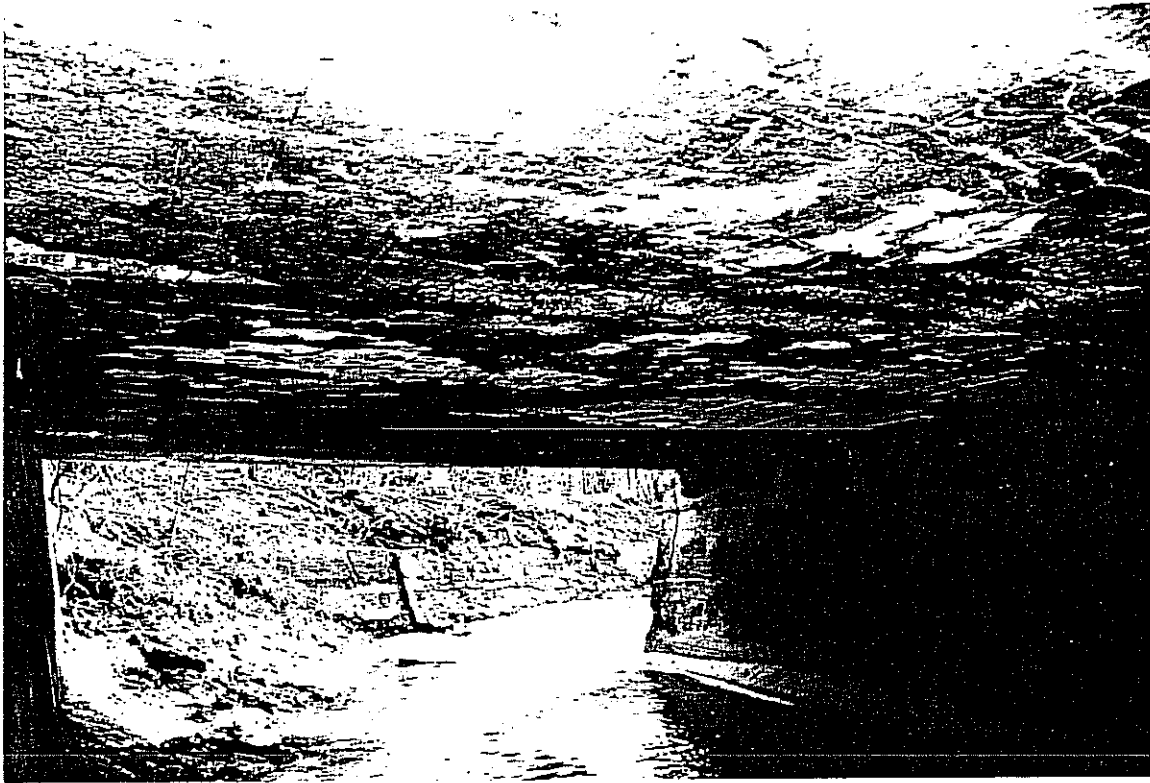
KEMPER ROAD BRIDGE REPLACEMENT

This is to certify that the funds required to initiate and complete the proposed Issue II Public Works Project will be available upon the Ohio Public Works Committee's approval of the project.

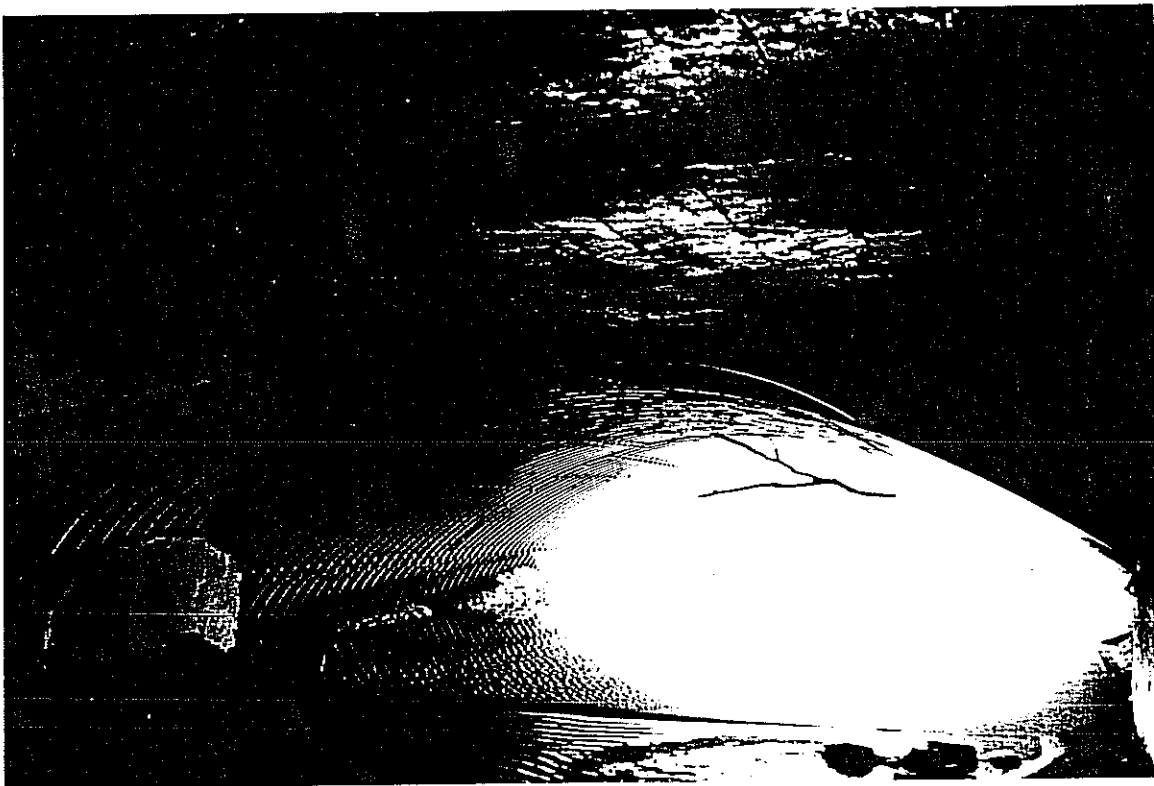
Rex E. Baysore
Safety/Service Director



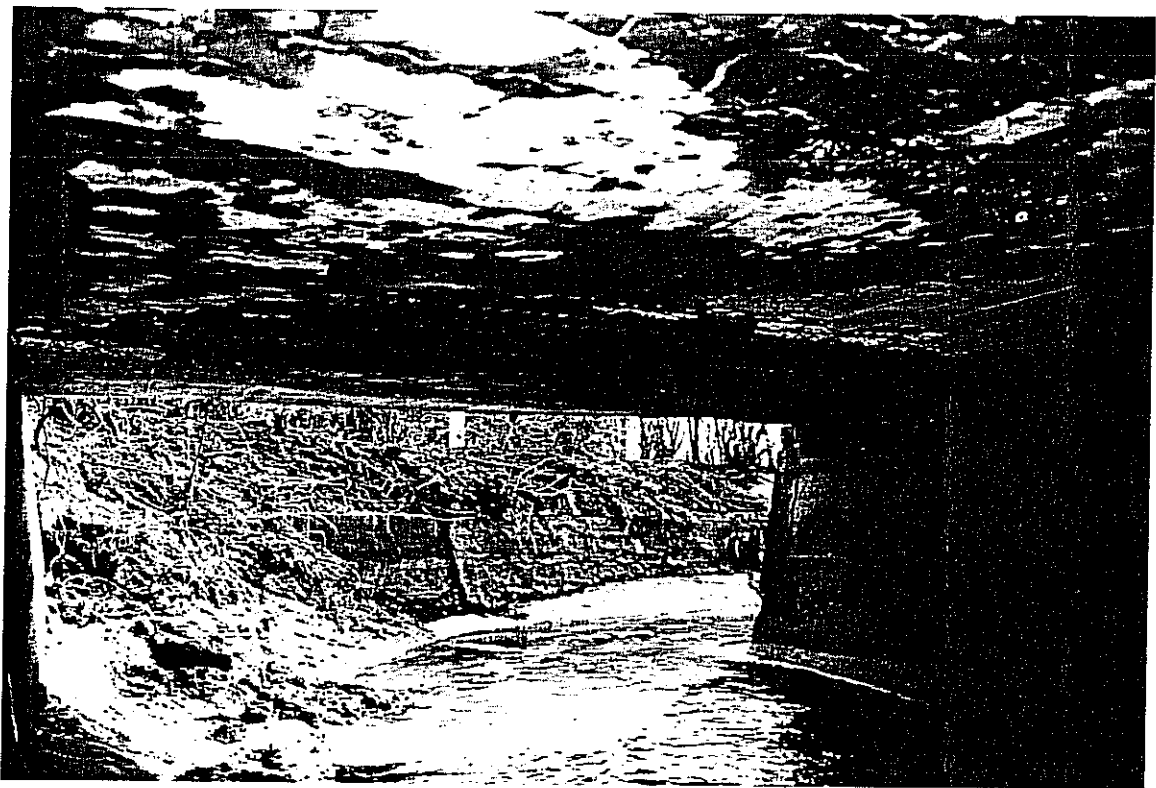
LOCATION MAP



Inside of original box structure.



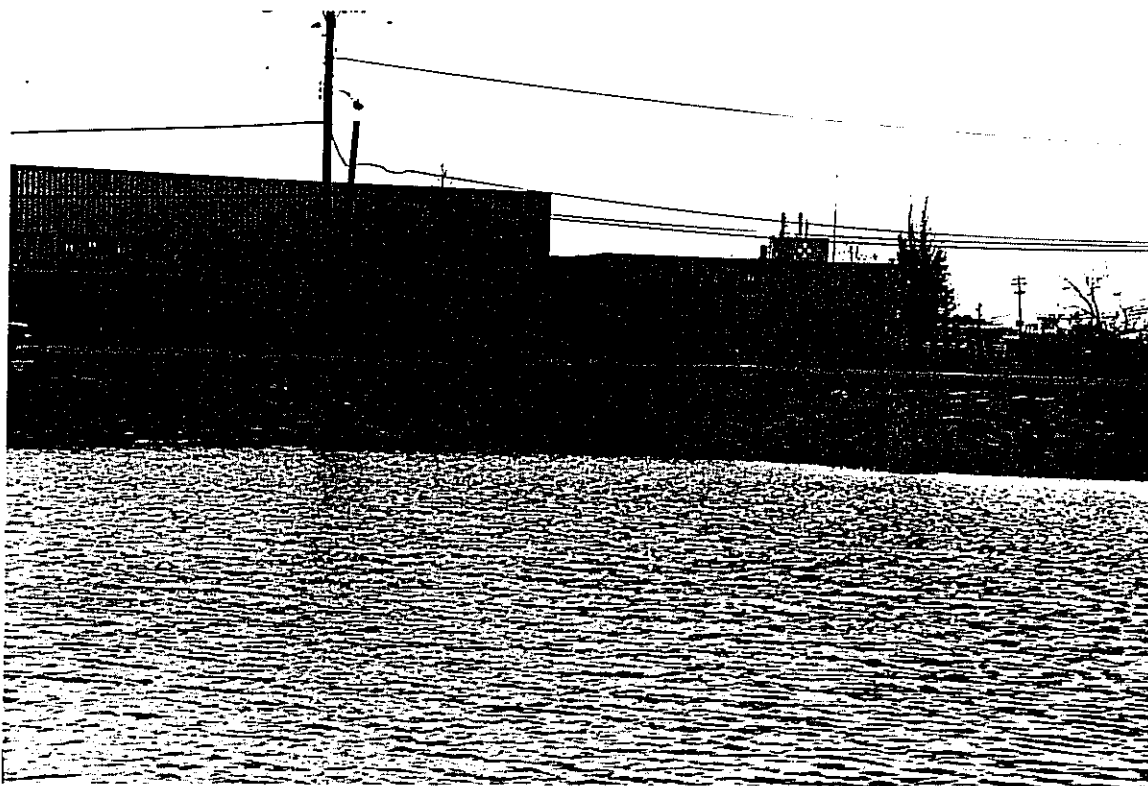
Corrugated metal arch extension



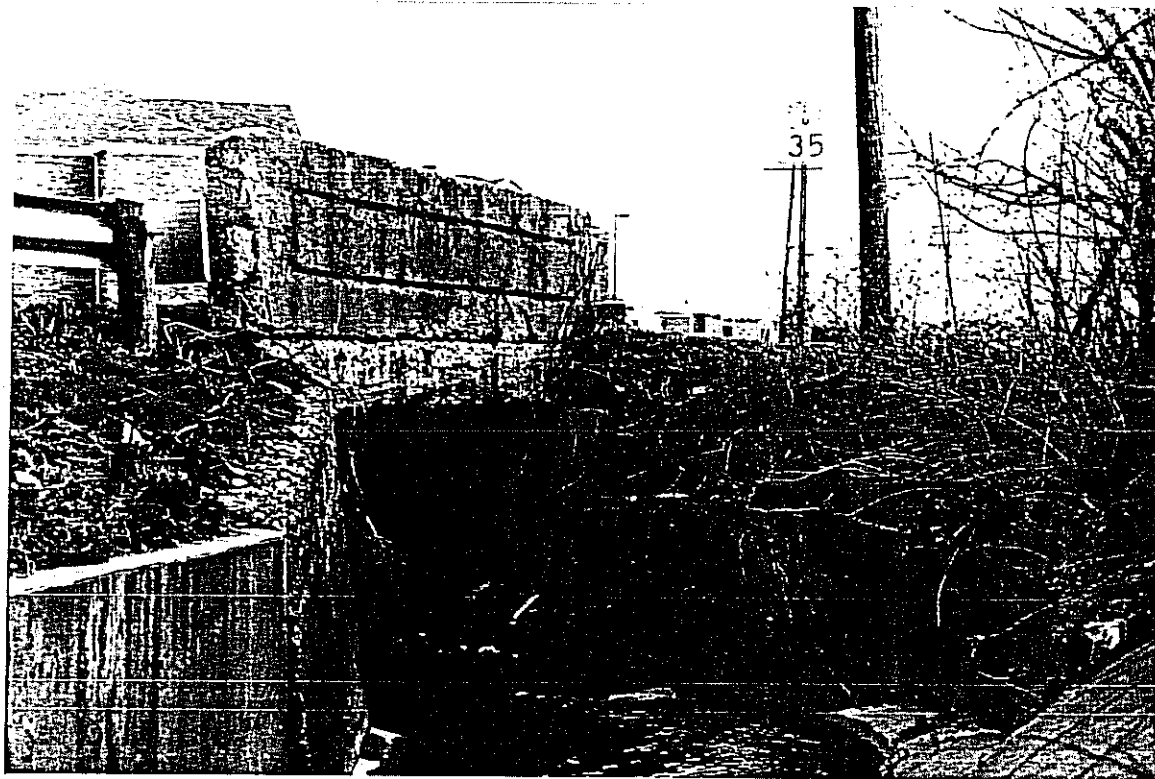
Inside of original box structure showing exposed reinforcement.



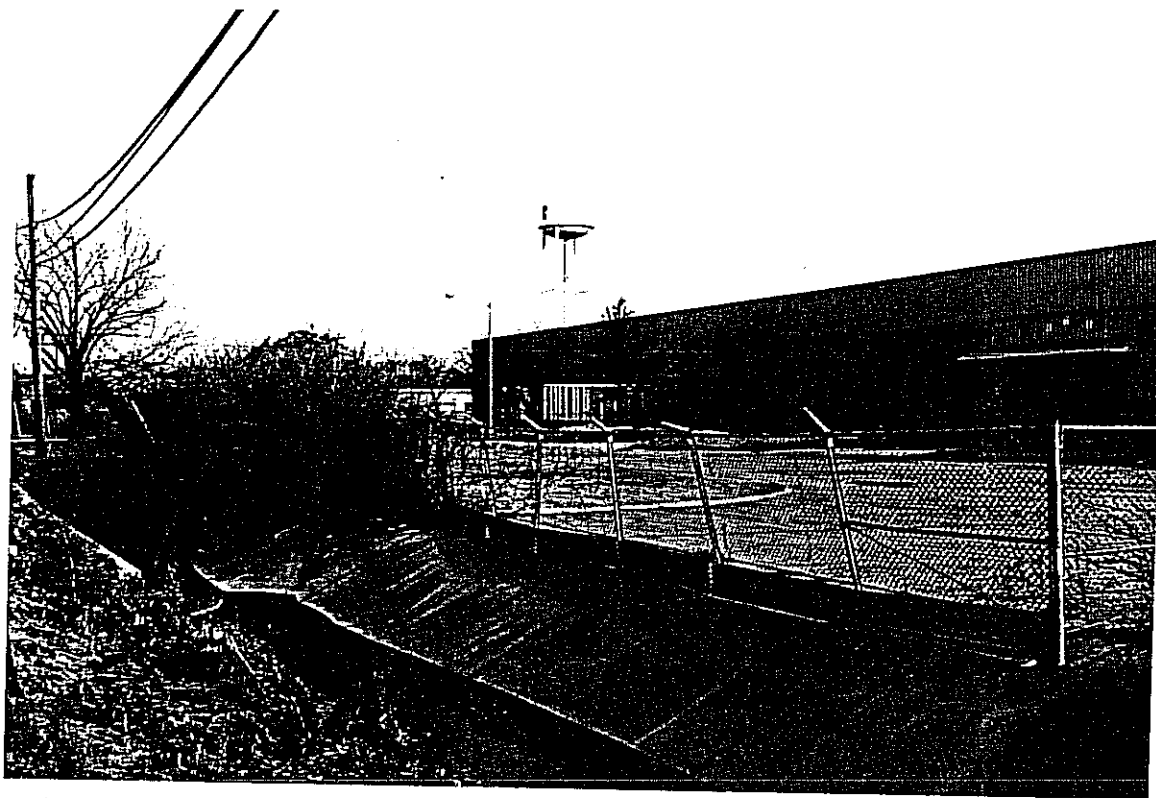
Close-up of exposed reinforcement.....
Note the depth of concrete spalling.



Inlet end of existing structure.



Outlet end of existing structure.



Outlet channel of existing culvert showing proximity
of adjacent truck turn around.



Outlet channel looking toward Mosteller Road....
Note close proximity of Kemper Road.

CDS Associates Inc.
15 MINUTE, 2 CHANNEL VEHICLE COUNT
CORRECTION FACTOR: 1.00

REFERENCE: 21
LOCATION: EAST KEMPER ROAD (WEST OF ROCKFIELD COURT)
WEATHER: SLUNNY 85
OPERATOR: MST

FILENAME: 88052-21
TUESDAY 7 / 26 / 88

HOUR BEGINS	0	15	30	45	HOUR TOTAL	0	15	30	45	HOUR TOTAL	COMBINED TOTAL
AM											
12	5	3	7	11	26	11	5	11	9	36	62
1	9	1	4	4	18	8	7	4	2	21	39
2	5	6	12	9	32	7	6	14	8	35	67
3	2	4	11	9	26	4	5	3	5	17	43
4	2	5	4	11	22	6	8	3	9	26	48
5	12	10	6	7	35	18	11	13	21	63	98
6	21	24	29	67	141	23	33	97	113	266	407
7	85	95	99	128	407	64	72	81	129	346	753
8	98	92	84	95	369	91	81	78	78	328	697
9	74	90	84	87	335	58	55	77	65	255	590
10	88	91	104	121	404	77	75	71	90	313	717
11	100	96	118	103	417	101	86	103	112	402	819
PM											
12	130	136	136	125	527	114	118	101	104	437	964
1	106	106	92	102	406	134	95	94	94	417	823
2	97	106	118	95	416	96	103	93	107	399	815
3	106	138	177	121	542	98	109	92	97	396	938
4	122	133	167	146	568	132	110	107	99	448	1016
5	220	149	132	95	596	155	148	105	80	488	1084
6	86	88	89	78	341	93	62	66	59	280	621
7	75	63	56	47	241	50	44	54	42	190	431
8	63	47	48	41	199	52	58	48	53	211	410
9	33	27	29	31	120	67	40	45	33	185	305
10	30	32	26	29	117	26	16	13	18	73	190
11	34	23	16	14	87	21	12	7	12	52	139
TOTALS					6392					5684	12076

AM PEAK HOUR IS 11:00 TO 12:00

VOLUME	WEST :	417	EAST :	402	COMBINED:	819
DIRECTIONAL SPLIT		51%		49%		
PEAK HOUR FACTOR		0.88		0.90		0.93

PM PEAK HOUR IS 4:30 TO 5:30

VOLUME	WEST :	682	EAST :	509	COMBINED:	1191
DIRECTIONAL SPLIT		57%		43%		
PEAK HOUR FACTOR		0.77		0.82		0.79

BRIDGE INSPECTION REPORT

1-88 REV 01-77

1 3 8 0 8 9

STRUCTURE FILE NUMBER 7

08

DISTRICT

111

BRIDGE TYPE

TYPE SERVICE

HAM S0266 0212

BRIDGE NUMBER

CO

ROUTE

UNIT

MUNI= 3915

1478

YEAR BUILT

1

15

TRIB EAST FORK MILL CREEK

HAM

CK	(Over)	1	TYPE	COND	Patches at new utility castings	2	TYPE	COND
DOOR		8	1	3	2 WEARING SURFACE slightly depressed	56	2	2
RBBS & WALKWAYS		10			4 MEDIAN		58	
ILING	(Over)	5	5	3	6 DRAINAGE	59	0	1
PANSION JOINTS		14			8. SUMMARY		61	4
PERSTRUCTURE	MAX.SPAN= 16	16			TOT.LENGTH= 19			
IGNMENT					10 BEAMS or GIRDERS	62		
APHRAGMS or CROSSFRAMES		17			12 JOIST		54	
DOOR BEAMS		18			14 FLOOR BEAM CONNECTIONS		65	
VERTICALS		19			16 DIAGONALS		66	
ND POST		20			18 TOP CHORD		67	
OWER CHORD		21			20 LOWER LATERAL BRACING		68	
OP LATERAL BRACING		22			22 SWAY BRACING		69	
ORTALS		23			24 BEARINGS	70		
CH		24			26 ARCH COLUMNS or HANGERS		72	
ANDRAL WALLS		25			28 SUSPENSION SYSTEM		73	
SPENDERS		26			30 TOWERS		74	
NT POST		27			32 ANCHORAGE		75	
IDGE MACHINERY		28			34 PAINT	76		
VE LOAD RESPONSE		29			36. SUMMARY		79	1
STRUCTURE	VERT. SPAN= 15.5 Horiz. crggs	MAT	3	2	38 ABUTMENT SEATS		80	1
UTMENTS in old portion of west abut.		2			40. PIER SEATS		81	
PIERS= 0		33			SW Wingwall cracked at abut.			
ERS					42 WINGWALLS Wingwall needed at NW corner		82	2
CKWALLS		36			Dirt has overrun wall @			
NDERS & DOLPHINS		37			44. SUMMARY S.E. corner		83	5
VERTS					46 ALIGNMENT		84	
NERAL		38			48. SUMMARY		85	
ADWALLS or END WALLS		40			50 PROTECTION	86	1	1
NNEL					52. SUMMARY		88	8
IGNMENT		42	1					
ATERWAY ADEQUACY		43	1					
ROACHES BRDG.RD.WIDTH= 30.3	2	2	1					
EMENT								

1. Thirty percent of bottom reinforcing exposed, twisted bars are exposed, some are 70 percent gone. Temperature steel expanding, some completely gone. Corrugated arch extension was added to north; arch not true. Efflorescence present from salt and water coming through deck. Heavy truck traffic.
5. North side has steel guardrail, wood posts need replacing; south side is concrete, slight deterioration.

APPLICATION YEAR: 1990

STATE OF OHIO

INFRASTRUCTURE BOND PROGRAM

DISTRICT 2, HAMILTON COUNTY

PROJECT APPLICATION

Jurisdiction/Agency: City of Sharonville Population (1980): 13,500

Project Title : Kemper Road Bridge Replacement, East of Mosteller

Project Identification and Location: Hamilton County Bridge No. HAM-S0266-0212;
located on Kemper Road, over a tributary to the East Fork of the Mill Creek
approximately 300' east of Mosteller Road (See Location Map).

Type of Project: Rehabilitation ☐ Replace ☒ Betterment* ☐

(Mark more than one box if there are expansion elements such as 2 lane bridge being replaced with a 4 lane bridge)

Explanation of Betterment Elements of Project*: _____

Road ☐ Bridge ☒ Flood Control System (Stormwater) ☐

Solid Waste Disposal Facilities ☐ Waste Water Treatment Systems ☐

Storm Water and Sanitary Collection Storage & Treatment Facilities ☐

Water Supply Systems ☐

Detailed Description of Project **: The existing bridge consists of a concrete
box culvert 50' long x 16'-6" span x 5'-8" rise (original structure) with a 5'
rise x 18' span corrugated metal arch extension on the north end. This project
will consist of replacing the existing structure with a 3-sided pre-cast
concrete bridge having a waterway opening of approximately 6'x26'.

Wingwalls/headwalls will be installed at each end of the new bridge and
approximately 100' of retaining wall will be needed at the south end. The
outletting channel to the Mosteller Road bridge (approximately 200' west) will

Type of Issue 2 Funds: District 2 _____ Small Government _____
Water/Sewer Rotary _____ Emergency _____ X

** Attach additional sheets if necessary

- Typical examples are:

Bridge Percentage = 27% poor to very poor

2. What is the condition of the infrastructure to be replaced or repaired? For bridges, base condition on latest general appraisal and condition rating.

Closed	_____	Fair to Poor	_____
Extremely Poor	<u>X</u>	Fair	_____
Poor	_____	Good	_____

Give a brief description of the nature of the deficiency of the present facility such as: inadequate load capacity (bridge), surface type and width, grades, curves, sight distances, drainage structures, sanitary sewers, and water mains. List the age of the infrastructure to be repaired or replaced using one of the following categories: less than 20 years, 20-29 years, 30-39 years, 40-49 years, 50 years or older

The primary deficiency of this structure is its advanced and rapidly accelerating state of deterioration. The original concrete section of the structure is 75 years old and is classified as a simple span concrete slab bridge. The top slab of this structure has severe losses of both concrete and primary steel reinforcement in large areas of the critical center portion of the span. Concrete has spalled to depths of 4"-6" in many areas throughout the top slab leaving the reinforcement steel completely exposed and hanging free. Reinforcement was found to have section losses of greater than 50% in many areas, as reported in the 1988 Bridge Inspection Report, prepared by the Hamilton County Bridge Engineer. In all, about 30% of the bottom reinforcing steel in the top slab is exposed. The bridge has has a current rating of 4A.

The bridges secondary deficiency is its insufficient hydraulic capacity. A total of 1843 acres (2.9 sq. miles), producing a peak runoff of 1300 cubic feet per second (CFS) on a 50 year storm is tributary to this structure. In contrast, the capacity of the existing bridge is approximately 500 CFS, or 38% of the capacity required. This inadequacy results in periodic (one or two times per year) overflowing of Kemper Road during periods of heavy rainfall.

3. If State Issue 2 funds are awarded, how soon (in weeks or months) after completion of the agreement with OPWC would the opening of bids occur?
14 Weeks

Please indicate the current status of the project development by circling the appropriate answers below.

- a) Has the Consultant been selected? Yes No N/A
b) Preliminary development or engineering completed? Yes No N/A
c) Detailed construction plans completed? Yes No N/A
d) All right-of-way acquired? Yes No N/A
e) Utility coordination completed? Yes No N/A

Give estimate of time, in weeks or months, to complete any item above not yet completed. Preliminary Engineering and detailed construction plans 10 weeks; utility coordination to be accomplished during the engineering phase.

4. How will the proposed infrastructure activity impact the general health, welfare, and safety of the service area.

Where applicable, comment on the following:

The area of Sharonville surrounding the subject bridge is zoned for uses that rely heavily on truck transportation; general industrial and industrial truck center. The weight limit reduction proposed, would cause these industries to incur increased operating costs due to detours as described in Item D below.

- a.) Overall safety, including accident reduction (Accident records should be attached, if available). The existing bridge has not been the cause of any accidents. However, due to its deteriorated condition and the possibility of collapse under heavy truck traffic, Hamilton County will be reducing the bridges weight limit to 10 tons. Replacement of the structure will re-open this important truck route without the possibility of a serious accident resulting from a bridge collapse.

- b) Emergency vehicle response time (fire, police & medical) Kemper Road is a major east-west route through Sharonville. A 10-ton weight limit on this bridge will require fire trucks to take an alternate route through downtown Sharonville to areas west of Mosteller Road. This represents approximately 2.0 miles and several minutes of additional travel.
- c) Other factors (i.e., fire protection, health hazards, etc.) See Item B above.
- d) Additional User Costs - The additional distance and time for the users to travel a detour or an alternate route The shortest detour available for trucks traveling Kemper Road will be: Mosteller to Commerce Boulevard, to Enterprise Drive, to Scarlet Oak Vocational School drive, to Kemper Road or vice-versa. Approximately 0.6 additional miles. This would not be a viable route for two (2) reasons.
1. The volume of traffic on Moseller Road at Commerce Blvd. (19,964 ADT) will make turning left from Commerce Blvd. very difficult especially at peak hours.
 2. The Scarlet Oaks Vocational School drive is a private drive and although it is used by the general public, is not a public right-of-way.
- The other two (2) most logical detours are:
1. Mosteller Road to I-275, to U.S. 42, to Kemper Road; or
 2. Mosteller Road to Sharon Road, to U.S. 42, to Kemper Road.
- These routes represent additional travel of 1.8 and 2.0 miles respectively. The number of trucks over 10 tons currently using the bridge has not been determined. However, the total number of trucks from 1988 traffic counts is estimated at 850 per day.
- e) When project is complete, how will it impact adjacent businesses? The completed project will have no direct impact on adjacent businesses. However, it will alleviate the extra travel time and operating costs, that the load limit will impose on the area trucking companies.

5. Are matching funds available? (i.e. Federal, State, MRF, Local, etc.)
Yes; MRF

To what extent of anticipated construction cost? 20%

List the type and amount of funds being supplied by the local agency. This amount may be from local, Federal, State, Municipal Road Fund (MRF), or other sources. Explain additional funding through other sources being applied for or received for the project. Also, explain any need to accumulate funds for construction at a later date. Complete LOCAL FUNDING SOURCES on Page 6.

The local agency shall supply a minimum of 10% of the anticipated construction cost. Additionally, the local agency shall pay for all costs of engineering, inspection of construction, right-of-way, and betterment portion of the project. Complete ESTIMATED COST OF PROJECT on Page 6.

6. Has any formal action by a federal, state or local government agency resulted in a partial ban or complete ban of the use of expansion of use for the involved infrastructure?

Are there any roads or streets within the proposed project limits that have weight limits (partial ban) or truck restrictions (complete ban)? Have any bridges had weight limits imposed on them (partial ban) or truck prohibitions (complete ban)? Have the issuance of new Building permits been limited (partial ban) or halted (complete ban) because the existing storm/sanitary sewer or water supply system in a particular area is inadequate? Document with specific information explaining what type of ban currently exists and the agency that imposed the ban. A recent (Feb 1990)

inspection by the Hamilton County bridge Engineer revealed the original concrete section of this structure to be deteriorating rapidly. Due to its increasingly poor condition, the County will reduce the weight limit on the bridge to 10 tons, effective March 13, 1990

7. What is the total number of existing users that will benefit as a result of the proposed project? Use appropriate criteria such as households, traffic counts, ridership figures for public transit, daily users, etc., and equate to an equal measurement of users.

For roads and bridges, multiply current documented Average Daily Traffic by 1.2 occupants per car (I.T.E. estimated conversion factor) to determine users per day. Ridership figures for public transit must be documented. Where the facility currently has any restrictions or is partially closed, use documented traffic counts prior to restriction. For storm sewers, sanitary sewers, water lines, and other related facilities, multiply the number of households in the service area by four (4) to determine the approximate number of users per day. ADT = 12076 VPD

12076 x 1.2 = 14,490 daily users

8. The applicant has conducted a study of its existing capital improvements and their condition. A five year overall Capital Improvement Plan (that shall be updated annually) is attached or on file with the District 2 Integrating Committee for the current year or shall be submitted by March 31 of the program year. The Plan shall include the following:
- a) An inventory of existing capital improvements, including their condition.
 - b) A plan that details capital improvements needs during the next five years and,
 - c) A list of the political subdivision's priorities in addressing these needs.

The attached Form 1 shall be completed for those projects which are being submitted for Issue 2 funds.

9. Is the infrastructure to be improved part of a facility that has regional significance? (Number of jurisdictions served, size of service area, trip lengths or lengths of route, functional classifications) Yes; Kemper Road is a major east-west route crossing nearly the entire width of northern Hamilton County. In the area of the subject bridge, it is a vital link between the Cities of Sharonville and Springdale. The trucks that will be most affected will be those which use the Mosteller Road/I-275 interchange to access the section of Kemper Road, east of Mosteller and west of Rt. 42

10. ESTIMATED COST OF PROJECT

<u>ACTIVITY</u>	<u>ISSUE 2 FUNDS</u>	<u>LOCAL FUNDS</u>
Planning, Design, Engineering	(100% Local)	\$ <u>33,200</u>
Right-Of-Way/Real Property	(100% Local)	\$ <u>N-A</u>
Inspection of Construction	(100% Local)	\$ <u>5,000</u>
Construction and Contingencies	\$ <u>195,600</u>	\$ <u>48,900</u>
Betterment Portion	(100% Local)	\$ <u>N-A</u>
SUBTOTAL	\$ <u>195,600</u>	\$ <u>87,100</u> **
Grand Total (Issue 2 Funds Plus Local Funds)		\$ <u>282,700</u>

LOCAL FUNDING SOURCES

Municipal Road Fund (MRF)	\$ <u>48,900</u>
State Fuel & License Funds	\$ <u></u>
Local Road Taxes	\$ <u></u>
Local Bond or Operating Funds	\$ <u></u>
Misc. Funds (Specify) <u>Capital Fund</u>	\$ <u>38,200</u>
TOTAL LOCAL FUNDS	\$ <u>87,100</u> **

** These numbers must be identical

CAPITAL IMPROVEMENT PLAN

LOCAL ABILITY TO PAY

A. Previous Capital Budget for Infrastructure Projects*

Budget is based on expenditures or appropriations?* (Circle One)

Funding (in thousands of dollars)	% of TOTAL expenditures/ appropriations	% of TOTAL Capital budget USED FOR INFRASTRUCTURE REPAIR/REPLACEMENT
1986 \$ 900	50 %	76 %
1987 \$2,934	50 %	28 %
1988 \$2,563	50 %	54 %
1989 \$3,167	50 %	46 %

B. Projected Capital Budget for Infrastructure Projects*

Budget is based on expenditures or appropriations?* (Circle One)

Funding (in thousands of dollars)	% of TOTAL expenditures/ appropriations	% of TOTAL Capital budget USED FOR INFRASTRUCTURE REPAIR/REPLACEMENT
1990 \$2,400	50 %	50 %
1991 \$2,385	50 %	50 %
1992 \$2,850	50 %	60 %

* Use only funds expended or appropriated for construction CONTRACTS.

Briefly explain any significant Reduction (10% or more) in projected expenditures or appropriations for 1989-92 as compared to actual expenditures or appropriations for previous years. (It is the intent of Issue 2 to SUPPLEMENT local capital funds, not REPLACE them.)

Does the jurisdiction utilize any of the following methods for funding sources? (circle answer)

Local income tax.....	<u>Yes</u>	<u>No</u>
Permissive license plate fee.....	<u>Yes</u>	<u>No</u>
Bridge and road levies.....	<u>Yes</u>	<u>No</u>
Tax increment financing and/or..... capital improvement bond issues	<u>Yes</u>	<u>No</u>
Direct user fees.....	<u>Yes</u>	<u>No</u>
Permit fees and fines.....	<u>Yes</u>	<u>No</u>

13.) AUTHORIZATION

The applicant hereby affirms that local funds will be provided if this project is selected.

Note: Attach with application any photographs, reports, plans or other available data on the project.

City of Sharonville

10900 Reading Road

Sharonville, Ohio 45241

Address

(513) 563-1144

Phone (Work)


Signature

Rex E. Baysore

Name

Safety-Service Director

Position

City of Sharonville, Ohio

Local Jurisdiction/Agency

NOTE THAT THIS FORM IS BEING OFFERED FOR
APPLYING JURISDICTION/AGENCIES: INFORMATION PURPOSES ONLY. IT WILL BE
FILLED OUT BY THE SUPPORT STAFF, BASED ON
INFORMATION SUPPLIED ON APPLICATION FORMS.

DISTRICT 2 - HAMILTON COUNTY

1990 PROJECT RATING FORM AND SELECTION CRITERIA

FOR

STATE ISSUE 2 DISTRICT ALLOCATION

STATE ISSUE 2 SMALL GOVERNMENT FUNDS

LOCAL TRANSPORTATION IMPROVEMENT PROGRAM

JURISDICTION/AGENCY:

City of Tharionville

PROJECT IDENTIFICATION:

*Kemper Road Bridge B-0212 located 300' east of
Maddox Road.*

PROPOSED FUNDING:

ELIGIBLE CATEGORY:

Bridge.

POINTS

10

1. Type of Project

10 points - Bridge, road, storm water.
3 points - All other type projects.

10

2. If Issue 2 Funds are awarded, how soon after the agreement
with OPWC is completed would bids occur?

10 points - Will be let in 1990
5 points - Likely to be let in 1990
0 points - Not likely to be let in 1990

8

3. What is the condition and/or serviceability of the infrastructure to be replaced or repaired. For bridges, base condition on latest general appraisal and condition rating.

10 points - Closed
8 points - Extremely Poor
6 points - Poor
4 points - Fair to Poor
2 points - Fair
0 points - Good

4

4. Of the total infrastructure within the jurisdiction which is similar to the infrastructure of this project, what portion can be classified as being in poor condition, and/or inadequate in service.

10 points - 50% and over
8 points - 40% and over
6 points - 30% and over
4 points - 20% and over
2 points - 10% and over

10

5. How important is the project to the health, welfare and safety of the public and the citizens of the district and/or the service area?

10 points - Significant importance
8 points -
6 points - Moderate importance
4 points -
2 points - Minimal importance

4

6. What is the overall economic health of the jurisdiction?

10 points - Poor
8 points -
6 points - Fair
4 points -
2 points - Excellent

4

7. Are matching funds for this project available? (i.e., Federal, State, MRF, Local, etc.). To what extent of estimated construction cost?

10 points - More than 50%
8 points - 40-50% and over
6 points - 30-49% and over
4 points - 20-29% and over
2 points - 10-19% and over

5

8. Has any formal action by a Federal, State or local governmental agency resulted in a partial or complete ban of the use or expansion of use for the involved infrastructure? This includes reduced weight limits on bridges.

10 points - Complete ban
5 points - Partial ban
0 points - No action

5

9. What is the total number of existing users that will benefit as a result of the proposed project. Use appropriate criteria such as households, traffic count, public transit, daily users, etc. and equate to an equal measurement of persons.

5 points - Over 10,000
4 points - Over 7,500 to 9,999
3 points - Over 5,000 to 7,499
2 points - Over 2,500 to 4,999
1 points - Under 2,449

5

10. Does the infrastructure have regional impact? (May consider size of service area, trip length or total length of route, number of jurisdictions, functional classification, etc.)

5 points - Major impact
4 points -
3 points - Moderate impact
2 points -
1 points - Minimal impact

65

TOTAL POINTS

Steve Mary

Joe Huppell

Reviewer Names

3/13/90

Date